

The following is a complete listing of all claims in the application, with an indication of the status of each:

**Listing of claims:**

1        1 (Currently amended). A detection device for detecting ejection condition of  
2        an ejection member of a drop-on-demand type inkjet recording device, the  
3        detection device comprising:

4                a controller that controls the ejection member to eject a refresh ink  
5                droplet;

6                a collector that collects the refresh ink droplet;

7                a reflection deflection means for reflecting deflecting the refresh ink  
8                droplet such that the deflected reflected refresh ink droplet impinges on the  
9                collector; and

10                a detecting means for detecting an ejection condition of the ejection  
11                member based on the refresh ink droplet.

1        2 (Original). The detection device according to claim 1, wherein the controller  
2        selectively controls the ejection member to eject a recording ink droplet at  
3        predetermined timings onto a recording medium, thereby forming a recording  
4        dot on the recording medium, and the controller controls the ejection member  
5        to eject the refresh ink droplet at a timing between the predetermined timings.

1        3 (Original). The detecting device according to claim 1, wherein the detecting  
2        means is provided common to all of a plurality of nozzles formed in the  
3        ejection member, and the controller controls the ejection member to eject the  
4        refresh ink droplet from the plurality of nozzles at different timings.

1       4 (Original). The detecting device according to claim 1, wherein the detecting  
2       means includes a detector that detects a charging state of the refresh ink  
3       droplet.

1       5 (Original). The detecting device according to claim 4, wherein the detector  
2       includes an induced current detecting electrode provided near a trajectory of  
3       the refresh ink droplet and a current detector that detects an electric current  
4       generated in the induced current detecting electrode.

1       6 (Original). The detecting device according to claim 1, wherein the detecting  
2       means includes an electric current detector that detects an electric current  
3       which flows through the collector when the refresh ink droplet impinges on  
4       the collector.

1       7 (Original). The detection device according to claim 1, wherein the detecting  
2       means includes a wetness detecting electrode disposed inside the collector and  
3       a detector that detects a clinging condition of the refresh ink droplet that clings  
4       on the wetness detecting electrode.

1       8 (Original). The detecting device according to claim 7, wherein the detector  
2       detects the clinging condition by detecting change in electric resistance  
3       between the wetness detecting electrode and the collector.

1       9 (Currently amended). The detecting device according to claim 1, wherein the  
2       detecting means includes an emitting member that emits a light flux that  
3       passes through a trajectory of the refresh ink droplet, a receiving member that  
4       receives the light flux emitted from the emitting member, and a detector that  
5       detects a shielding condition in which the light flux is ~~shield~~ shielded by the  
6       refresh ink droplet that flies along the trajectory.

1 10 (Original). The detecting device according to claim 1, wherein the collector  
2 and the deflection means are formed integral with each other.

1 11 (Currently amended). An inkjet recording device comprising  
2 an ejection member for ejecting a refresh ink droplet;  
3 a controller that controls the ejection member to eject the refresh ink  
4 droplet;  
5 a collector that collects the refresh ink droplet;  
6 a reflection deflection means for reflecting deflecting the refresh ink  
7 droplet such that the reflected deflected refresh ink droplet impinges on the  
8 collector; and  
9 a detecting means for detecting an ejection condition of the ejection  
10 member based on the refresh ink droplet.

1 12 (Original). The inkjet recording device according to claim 11, wherein the  
2 ejection member further ejects a recording ink droplet onto a recording  
3 medium, thereby forming a recording dot on the recording medium, and the  
4 controller selectively controls the ejection member to eject the recording ink  
5 droplet at predetermined timings and to eject the refresh ink droplet at a  
6 timing between the predetermined timings.

1 13 (Original). The inkjet recording device according to claim 11, wherein:  
2 the ejection member is formed with a plurality of nozzles through  
3 which refresh ink droplets are ejected;  
4 the detecting means is provided common to all the plurality of nozzles;  
5 and  
6 the controller controls the ejection member to eject the refresh ink  
7 droplet from the plurality of nozzles at different timings.

1 14 (Original). The inkjet recording device according to claim 11, wherein the  
2 detecting means includes a detector that detects a charging state of the refresh  
3 ink droplet.

1 15 (Original). The inkjet recording device according to claim 14, wherein the  
2 detector includes an induced current detecting electrode provided near a  
3 trajectory of the refresh ink droplet and a current detector that detects an  
4 electric current generated in the induced current detecting electrode.

1 16 (Original). The inkjet recording device according to claim 11, wherein the  
2 detecting means includes an electric current detector that detects an electric  
3 current which flows through the collector when the refresh ink droplet  
4 impinges on the collector.

1 17 (Original). The inkjet recording device according to claim 11, wherein the  
2 detecting means includes a wetness detecting electrode disposed inside the  
3 collector and a detector that detects a clinging condition of the refresh ink  
4 droplet that clings on the wetness detecting electrode.

1 18 (Original). The inkjet recording device according to claim 17, wherein the  
2 detector detects the clinging condition by detecting change in electric  
3 resistance between the wetness detecting electrode and the collector.

1 19 (Currently amended). The inkjet recording device according to claim 11,  
2 wherein the detecting means includes an emitting member that emits a light  
3 flux that passes through a trajectory of the refresh ink droplet, a receiving  
4 member that receives the light flux emitted from the emitting member, and a

5       detector that detects a shielding condition in which the light flux is ~~shield~~  
6       shielded by the refresh ink droplet that flies along the trajectory.

1       20 (Original). The inkjet recording device according to claim 11, wherein the  
2       collector and the deflection means are formed integral with each other.